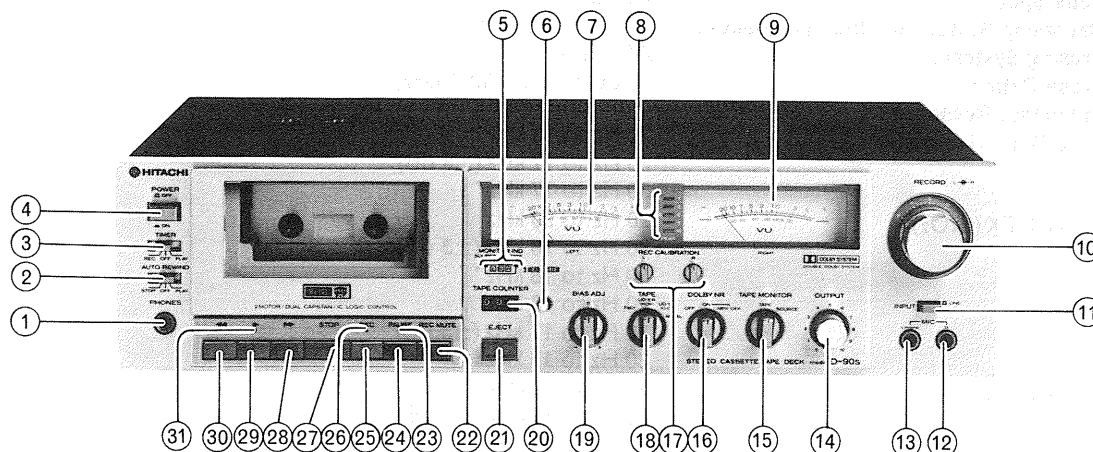


SERVICE MANUAL

English

No. 1270



KEY TO ILLUSTRATIONS

- | | | |
|----------------------------|-----------------------------|-----------------------|
| ① HEADPHONE JACK | ⑫ MICROPHONE JACK (RIGHT) | ⑳ PAUSE INDICATOR |
| ② AUTO-REWIND SWITCH | ⑬ MICROPHONE JACK (L/mono) | ㉑ PAUSE BUTTON |
| ③ TIMER SWITCH | ⑭ OUTPUT LEVEL CONTROL | ㉒ RECORD BUTTON |
| ④ POWER (MAINS) SWITCH | ⑮ MONITOR SWITCH | ㉓ RECORD INDICATOR |
| ⑤ MONITOR INDICATOR | ⑯ DOLBY NR SWITCH | ㉔ STOP BUTTON |
| ⑥ COUNTER RESET BUTTON | ⑰ REC CALIBRATION KNOB | ㉕ FAST FORWARD BUTTON |
| ⑦ VU METER (LEFT) | ⑱ TAPE SELECT SWITCH | ㉖ PLAYBACK BUTTON |
| ⑧ PEAK INDICATORS | ⑲ BIAS FINE ADJUSTMENT KNOB | ㉗ REWIND BUTTON |
| ⑨ VU METER (RIGHT) | ㉑ TAPE COUNTER | ㉘ PLAYBACK INDICATOR |
| ⑩ RECORDING LEVEL CONTROLS | ㉒ EJECT BUTTON | |
| ⑪ INPUT SELECTOR | ㉓ REC MUTE BUTTON | |

SAFETY PRECAUTION

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with Δ in the schematic diagram and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

Note :

W.....General Area
 FS.....Switzerland and Scandinavia
 BS.....Great Britain
 AU.....Australia
 C.....Canada
 U.....USA

STEREO CASSETTE TAPE DECK

November 1979

SPECIFICATIONS

Semi-conductors :

IC's
Transistors

5
43 (For U, C)
45 (For W, BS, FS, AU)
38 (For U, C)
40 (For W, BS, FS, AU)

Diodes

10

LED's

Track System :

4 track 2 channel

Tape :

Cassette tape (C-30, 60, 90)

Tape Speed :

4.75cm/s

Recording System and Bias Frequency :

AC bias, 85 kHz

Erasing System :

AC erase

Erase Ratio :

65 dB or more (at 1 kHz)

Frequency Response :

UD-ER (Normal)

20 Hz to 18 kHz
30 Hz to 17 kHz (± 3 dB)
30 Hz to 17 kHz*

UD-EX (CrO₂)

20 Hz to 20 kHz
30 Hz to 18 kHz (± 3 dB)
30 Hz to 18 kHz*

FeCr

20 Hz to 18 kHz
30 Hz to 17 kHz (± 3 dB)
30 Hz to 17 kHz*

METAL

20 Hz to 21 kHz
30 Hz to 19 kHz (± 3 dB)
30 Hz to 19 kHz*

S/N (Signal to Noise Ratio) :

Dolby NR OFF

60 dB (A weighted, Reference 3% T.H.D. metal Tape)
60 dB*

Dolby NR ON

68 dB (A weighted, Reference 3% T.H.D. metal Tape)
68 dB*

Wow and Flutter :

0.04% (WRMS)
0.13%*

Input Sensitivity and Impedance :

Microphone

0.3mV, 300 ohms to 5 kohms

Line in

60mV, 50 kohms or more

DIN (Record/Playback)

0.3mV, 5 kohms (For W, BS, FS, AU)

Output Level :

500mV or more

Output Load Impedance :

Line out

50 kohms or more

DIN (Record/Playback)

470 kohms or more (For W, BS, FS, AU)

Headphone

8 ohms to 2 kohms

Distortion :

Less than 1.2% (1 kHz, 0VU)

Cross Talk :

Between tracks

60 dB or more (at 1 kHz)

Between channels

30 dB or more (at 1 kHz)

Power Supply :

AC 220V, 50 Hz (For FS)

AC 120V, 60 Hz (For U, C)

AC 240V, 50 Hz (For BS, AU)

AC 100 to 110V/115 to 127V/200 to 220V/230 to 250V, 50/60 Hz (For W)

25W

Power Consumption :**Dimensions :**

110(H)×435(W)×267(D)mm

Weight :

7.0kg

Motor :

Electronically controlled DC motor

Heads :

Record/Playback head×1

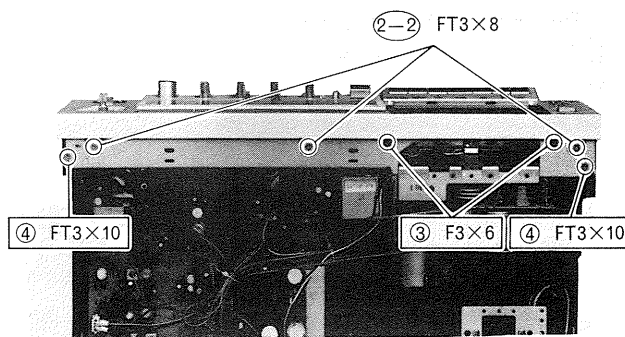
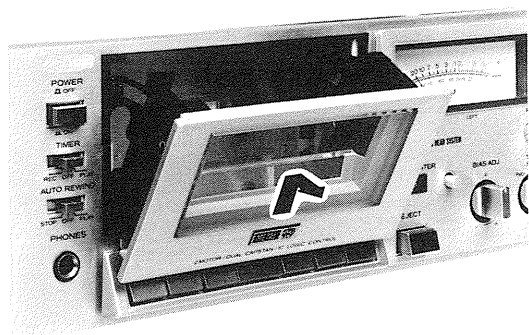
Erase head×1

* According to DIN 45 500

Specifications and Schematic diagram are subject to change for performance improvement without notice.

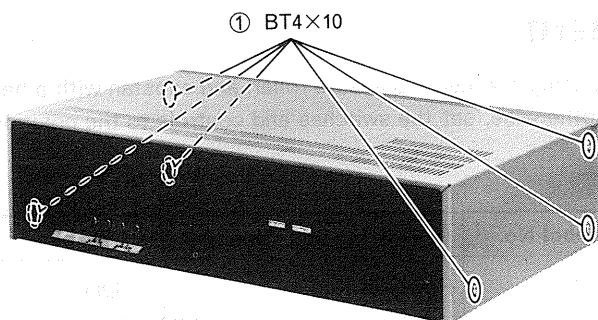
DISASSEMBLY

1. Cassette lid



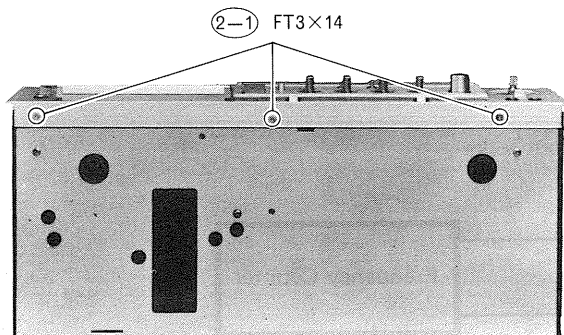
2. Top cover

- (1) 6 screws



3. Front panel

- 1) Remove the cassette lid (See item 1)
- 2) Remove the top cover (See item 2)
- 3) (2-1) 3 screws
- 4) (2-2) 3 screws

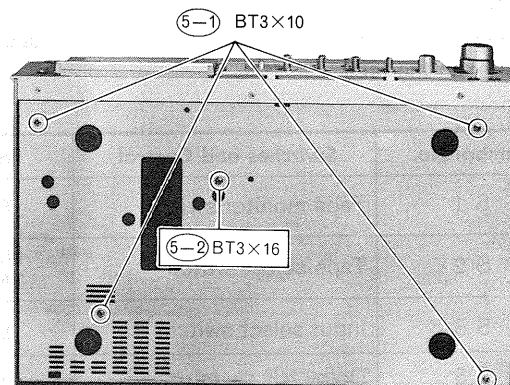


4. Chassis

- 1) Remove the front panel
 - 2) (3) 2 screws
 - 3) (4) 2 screws
- (See item 3)

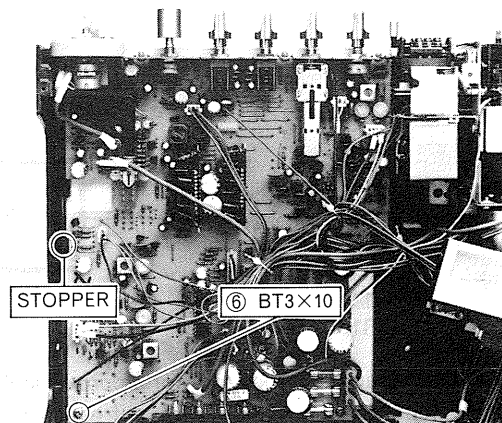
5. Bottom cover

- 1) (5-1) 4 screws
- 5) (5-2) 1 screw



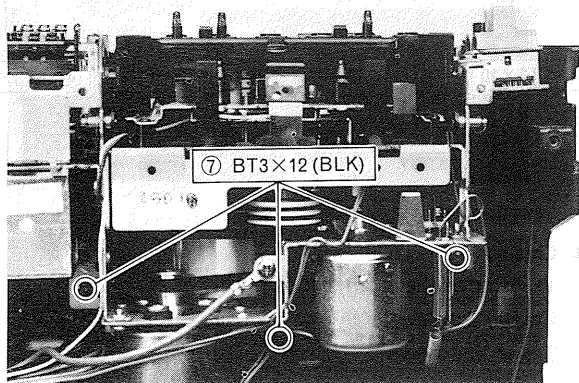
6. Main PC board

- 1) Remove the chassis assembly (See item 4)
- 2) (6) 1 screw
- 3) 1 stopper



7. Cassette chassis

- 1) Remove the chassis assembly (See item 4)
- 2) ⑤-2 1 screw (See item 5)
- 3) ⑦ 3 screws



ADJUSTMENT

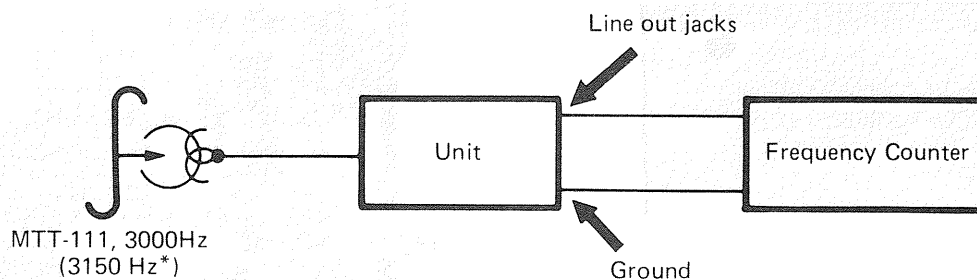
Perform the following adjustments in the sequence stated after cleaning the head, pressure roller, and capstan with a head cleaning stick moistened in alcohol. Also, unless specially indicated otherwise, set the switches and controls to the positions indicated in the table.

Symbol No.	Switches and Control	Position	Symbol No.	Switches and Control	Position
S 1	Tape monitor switch	TAPE	S18	Power switch	ON
S 2	Tape select switch	UD-ER (NOR)	RV1L, R	Record level controls	MAX
S 3	Input select switch	LINE	RV2L, R	Output level control	MAX
S 5	Dolby NR switch	OFF	RV3L, R	Rec calibration controls	CENTRE
S 9	Timer switch	OFF	RV4	Bias fine controls	CENTRE
S10	Auto rewind switch	OFF	—	—	—

1. Tape speed adjustment

Setting : Playback mode

Connection :



Adjustment : Warm up the unit for approximately 20 minutes ; then playback test tape MTT-111, 3000 Hz (3150 Hz*) and measure the speed deviation with a frequency counter. If required, adjust the semi-variable resistor on the motor for a reading of $3000 \text{ Hz} \pm \frac{30}{10} \text{ Hz}$ (3150 Hz*). Carry out the measurement at the middle of the tape.

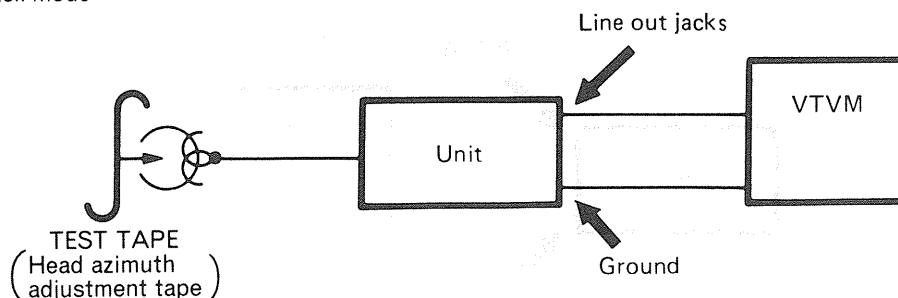
* According to DIN 45 500.

2. Head azimuth adjustment

1) Rough adjustment

Setting : Playback mode

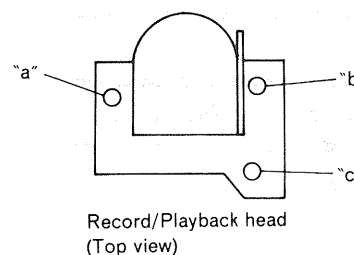
Connection :



Adjustment :

Use the HITACHI head adjusting jig and instructions. (Consult nearest HITACHI office.)

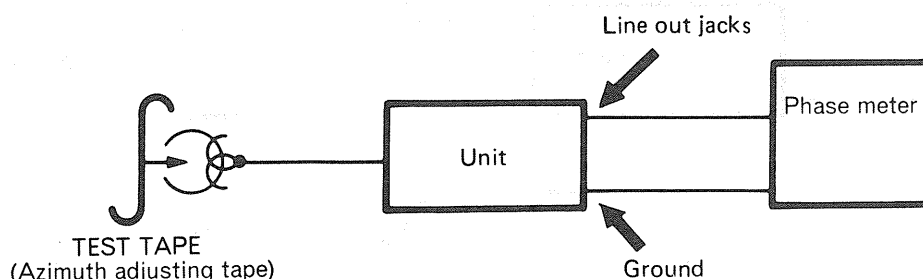
To obtain the correct head height, tilt and azimuth. This adjustment has to be done alternately. Then, use test tape (Azimuth adjusting tape) to adjust the azimuth of Record/Playback head by means of the adjusting screw "a" for maximum output.



2) Fine adjustment

Setting : Playback mode

Connection :



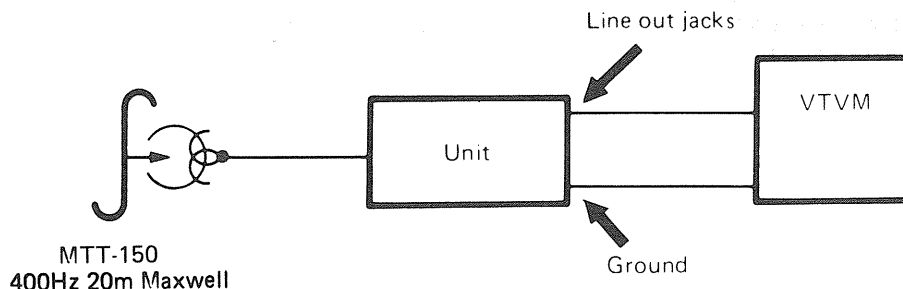
Adjustment :

Adjust the head azimuth screw "a" so that the phase difference between both channels is within 10% at 10 kHz when the test tape (Azimuth adjusting tape) is played back.

3. Playback output and VU meter adjustment

Setting : Playback mode

Connection :



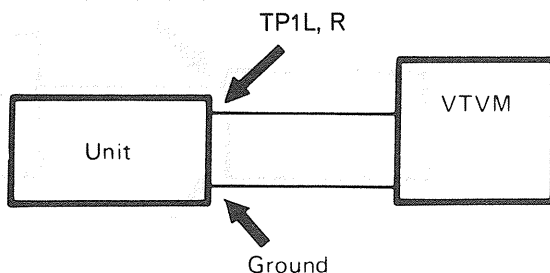
Adjustment : Playback a Dolby calibration tape (MTT-150, 400 Hz 20m Maxwell) and adjust RT1L, R so that the voltage of Line out jack becomes 0 dBm (0.775V).

Then, adjust RT2L, R so that the meter indicators deflect to the Dolby marks ().

4. Bias trap adjustment

Setting : Recording mode

Connection :



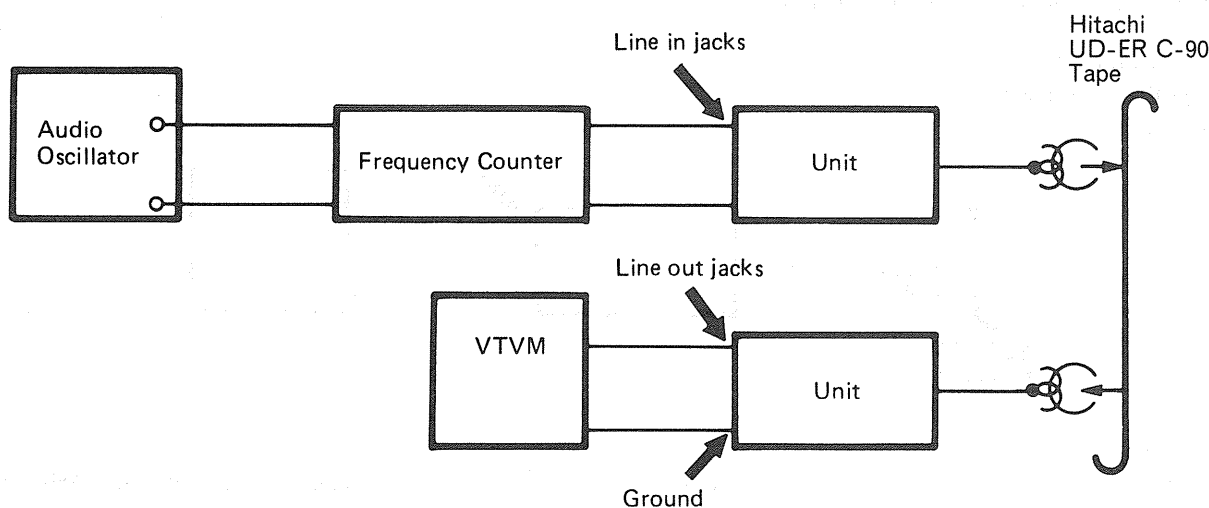
Adjustment : Connect a VTVM between TP1L, R and ground and adjust T2 so that the voltage becomes minimum.

5. Bias current, record level adjustment

Setting : Recording/Playback mode

● Dolby NR switch : ON

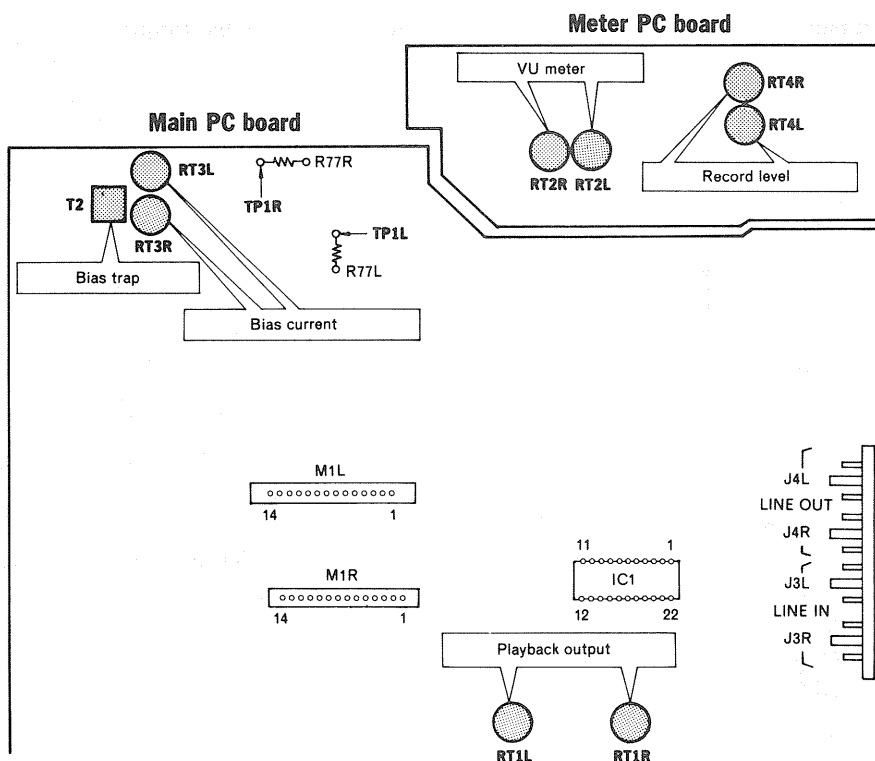
Connection :



Adjustment :

- 1) Use HITACHI UD-ER C-90 tape.
- 2) Set the monitor switch to the SOURCE position and feed 1 kHz signal into LINE IN and adjust the attenuator of the signal generator so that the VU meters of the set indicate 0VU.
Then, set the monitor switch to TAPE position and adjust RT4L, R so that the VU meters indicate $0VU \pm 0.3VU$. (This indication is the standard recording level : AdB)
- 3) Next, record 1 kHz and 13 kHz signals at the level of AdB—20dB. Playback the recorded tape and adjust RT3L, R for an output difference within ± 1.0 dB.

ADJUSTMENT PARTS LOCATION



LUBRICATION

Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication	
Motor shaft bearing	Oil
Capstan shaft bearing	
Pressure roller bearing	

Inspection of mechanism

	Check item	Reference value	Remarks
1.	Pressure of pressure roller	P ₁ : 350±50 gr P ₂ : 195±28 gr	Note 1
2.	Pressure of take-up roller	200 to 250 gr	Note 2
3.	Turntable torque	FF Rewind	Note 3
4.	Torque	Take-up FF Rewind	Measure in Playback mode Measure in Fast Forward mode Measure in Rewind mode
5.	Back tension	Take-up side Supply side	— —
6.	Brake torque	More than 15 gr-cm	—
7.	Flywheel thrust gap	0.05 to 0.5 mm	—

Note 1 : Pressure of pressure roller

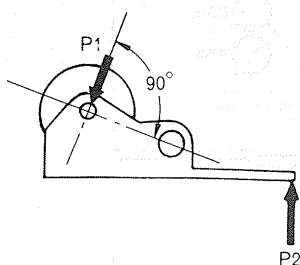


Fig. A

Note 2 : Pressure of take-up roller

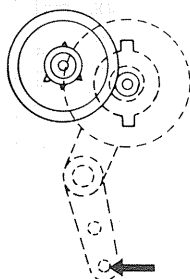


Fig. B

Note 3 : Turntable torque

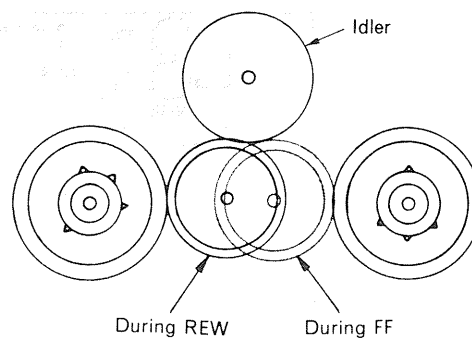


Fig. C

* The friction idler and reel disc should not slip when the reel disc stops.

Installation adjustment of head plate solenoid

As shown in Fig. D, push up the head plate fully in the direction of arrow A. Push up the head plate solenoid fully

in the direction of arrow B while pulling the iron core of the head plate solenoid and fix it using 2 adjusting screws.

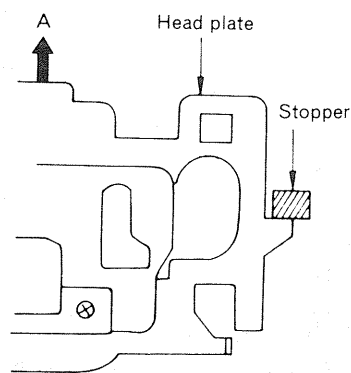


Fig. D

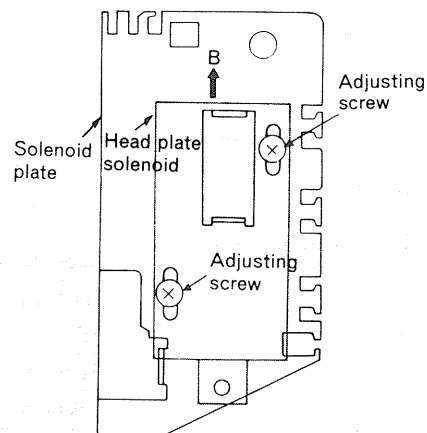
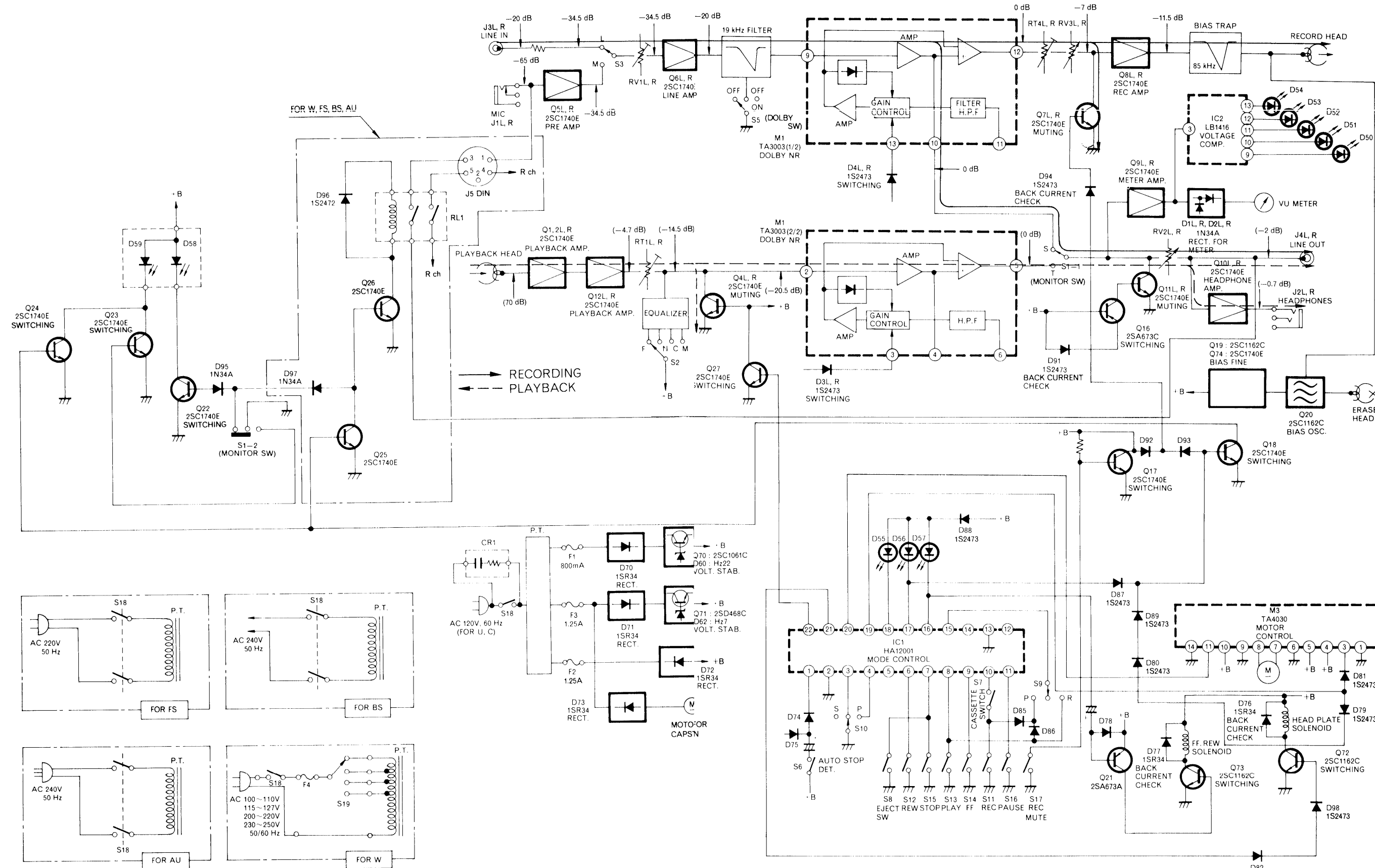


Fig. E

BLOCK DIAGRAM

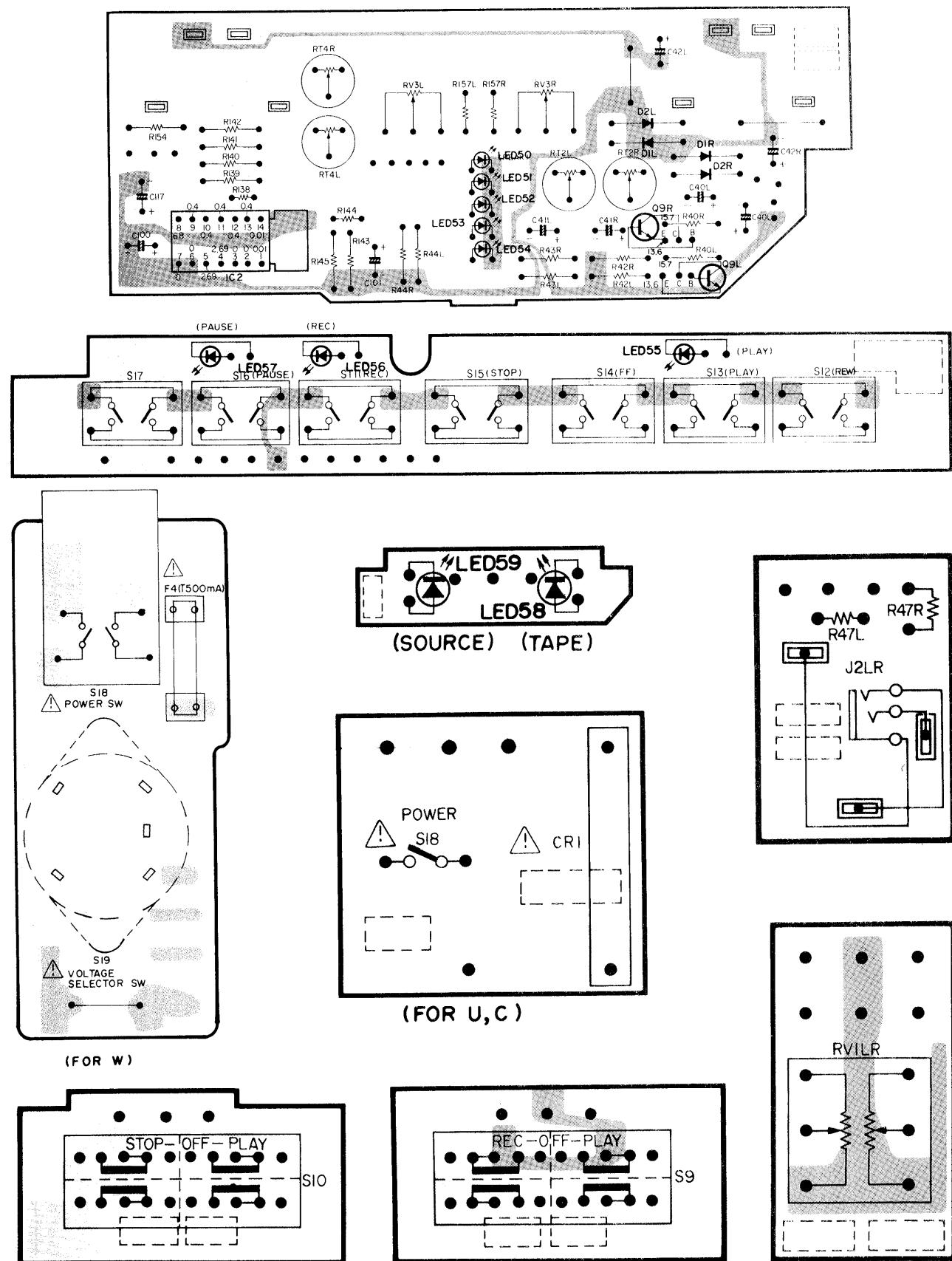


REPLACEMENT PARTS LIST

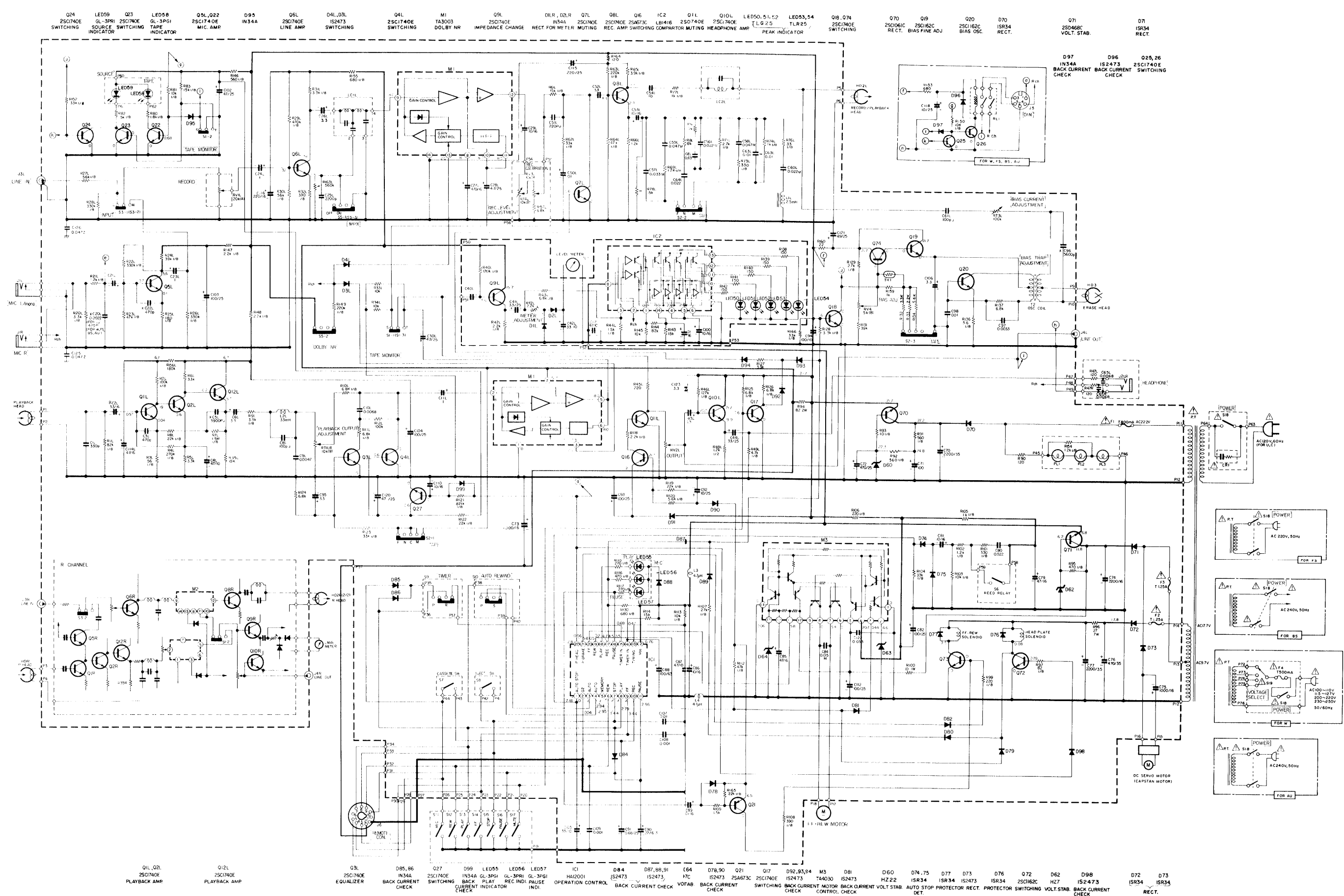
SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
CAPACITORS					
C 2LR	0256381	TANTALUM ELECTROLYTIC 3.3MF 16V	D100	0575001	DIODE 10M GERMANIUM 1N34A
C 5LR	0268428	POLYPROPYLENE 3900PF+-5%	IC1	5350852	IC HA12001
C20LR	0209022	CERAMIC DISC (RESISTOR SHAPE) 0.002 2MF+-30% (FOR U, C)	IC2	5359871	IC LB1416
	0209086	CERAMIC DISC (RESISTOR SHAPE) 470PF+-10% (FOR W, FS, BS, AU)	M 1LR	5356834	MODULE TA3003DR
C22LR	0209006	CERAMIC DISC (RESISTOR SHAPE) 470PF +-10%	M 2	5356982	MODULE TAA030
C96	0268433	POLYPROPYLENE 5600PF+-5%	Q 1LR-8LR	5321295	TRANSISTOR 25C1740E
RESISTORS			Q 9LR	5321295	TRANSISTOR 25C1740E
△ CR1	0219902	CR PACK 120 OHM 0.0033MF 450V (FOR U)	Q10LR-12LR	5321295	TRANSISTOR 25C1740E
△ CR1	0219907	CR PACK (FOR C)	Q16	5320593	TRANSISTOR SILICON 80M 25A673C
RT1LR	5007186	SEMI VARIABLE 10K OHM	Q17	5321295	TRANSISTOR 25C1740E
RT2LR	5007184	SEMI VARIABLE 2.2K OHM	Q18	5320623	TRANSISTOR SILICON 25C1213A-C 80MHZ 400M
RT3LR	5007189	SEMI VARIABLE 100K OHM	Q19	5322651	TRANSISTOR 25D667C
RT4LR	5007186	SEMI VARIABLE 10K OHM	Q20	5322651	TRANSISTOR 25D667C
RV1LR	5000556	VARIABLE 20K OHM(A)	Q21	5320593	TRANSISTOR SILICON 80M 25A673C
RV2LR	5000145	VARIABLE 10K OHM(B)	Q22-24	5321295	TRANSISTOR 25C1740E
RV3LR	5000682	VARIABLE 10K OHM(B)	Q25-26	5321295	TRANSISTOR 25C1740E (FOR W, BS, FS, AU)
RV4	5000437	VARIABLE 5K OHM(B)	Q27	5321295	TRANSISTOR 25C1740E
R100	0170407	FUSE 10 OHM+-5% 1/2W	Q70	5321301	TRANSISTOR 25C1061
SEMI-CONDUCTORS			Q71	5321215	TRANSISTOR 25D468C 190MHZ 0.9MW
D 1LR	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW	Q72	5320643	TRANSISTOR SILICON 150M 25C1162
D 2LR	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW	Q73	5320643	TRANSISTOR SILICON 150M 25C1162
D 3LR	5330574	DIODE 1S2473	Q74	5321295	TRANSISTOR 25C1740E
D 4LR	5330574	DIODE 1S2473	TH1	5340231	THERMISTOR 112302-2
LED 50-52	5380372	LED TLR-25	TRANSFORMERS		
LED 53	5380371	LED TLR-25	△ PT	5212692	POWER (FOR U, C)
LED 54	5380371	LED TLR-25	△ PT	5212721	POWER (FOR FS)
LED 55	5380242	LED GL 3PG1		5212722	POWER (FOR BS)
LED 56	5380241	LED GL 3PR1	PT	5212723	POWER TRANSFORMER (FOR W)
LED 57	5380242	LED GL 3PG1		5212694	POWER (FOR AU)
LED 58	5380242	LED GL 3PG1	T2	5260368	OSCILLATOR
LED 59	5380241	LED GL 3PR1	COILS		
D 60	5331013	2ENFR DIODE HZ22	L1LR	5120274	CHOKE
D 62-64	5330313	DIODE 1.0M SILICON HZ7C	L2LR	5260215	TRAP 33MH
D 70-73	5331241	DIODE 1SR34	L3	5152125	CHOKE 47MICRO H
D 74	5330574	DIODE 1S2473	L4	5152125	CHOKE 47MICRO H
D 75	5330574	DIODE 1S2473	MISCELLANEOUS		
D 76	5331241	DIODE 1SR34		5641092	REED RELAY
D 77	5331241	DIODE 1SR34		5676082	PIN JACK
D 78	5330571	DIODE 1S2473VE	△	5746157	POWER CORD (FOR W, FS)
D 79-82	5330574	DIODE 1S2473	△	5746342	POWER CORD (FOR BS)
D 84	5330574	DIODE 1S2473	△	5746442	POWER CORD (FOR U, C)
D 85	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW	△	5746571	POWER CORD (FOR AU)
D 86	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW	△ F1	5720175	FUSE 0.8A
D 87-92	5330574	DIODE 1S2473	△ F2	5721063	FUSE 1.25AT
D 93	5330572	DIODE 100M SILICON 1S2473HC	△ F3	5721063	FUSE 1.25AT
D 94	5330574	DIODE 1S2473	△ F4	5720173	FUSE 500MA (FOR W)
D 95	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW	J1LR	5674201	MIC JACK
D 96	5330574	DIODE 1S2473 (FOR W, BS, FS, AU)	J2LR	5674221	HEADPHONE JACK
D 97	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW (FOR W, BS, FS, AU)			
D 98	5330574	DIODE 1S2473			
D 99	5330721	DIODE GERMANIUM 1N34A 10MHZ 50MW			

CIRCUIT BOARD DIAGRAM

■ : Ground ■ : Signal, +B ■ : Component side pattern



SCHEMATIC DIAGRAM



CIRCUIT BOARD DIAGRAM

: Ground

: +B, Signal

Note

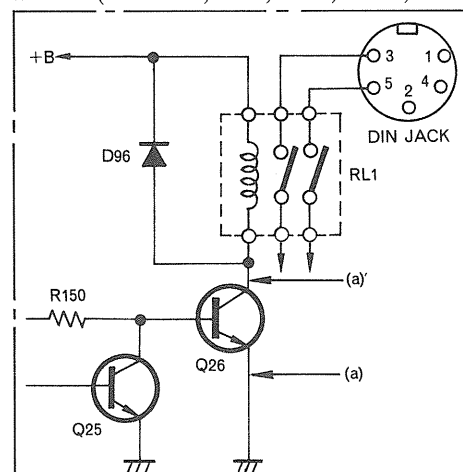
1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

Circuit No.	
Value	No indicated Ω (Ohm) M : 1000 k Ω
Tolerance	No indicated $\pm 5\%$ K : $\pm 10\%$ M : $\pm 20\%$
Wattage	No indicated $\frac{1}{4}W$
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

Circuit No.	
Value	No indicated μF P : PF
Tolerance	No indicated $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $+80\%$, -20% D : $\pm 0.5pF$ C : $\pm 0.25pF$
Sort	Ceramic Electrolytic Mylar Polyester Styrol
Voltage	No indicated 50WV

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with *, use specified ones stated on parts list since required temperature characteristics.

Note (For W, FS, BS, AU)



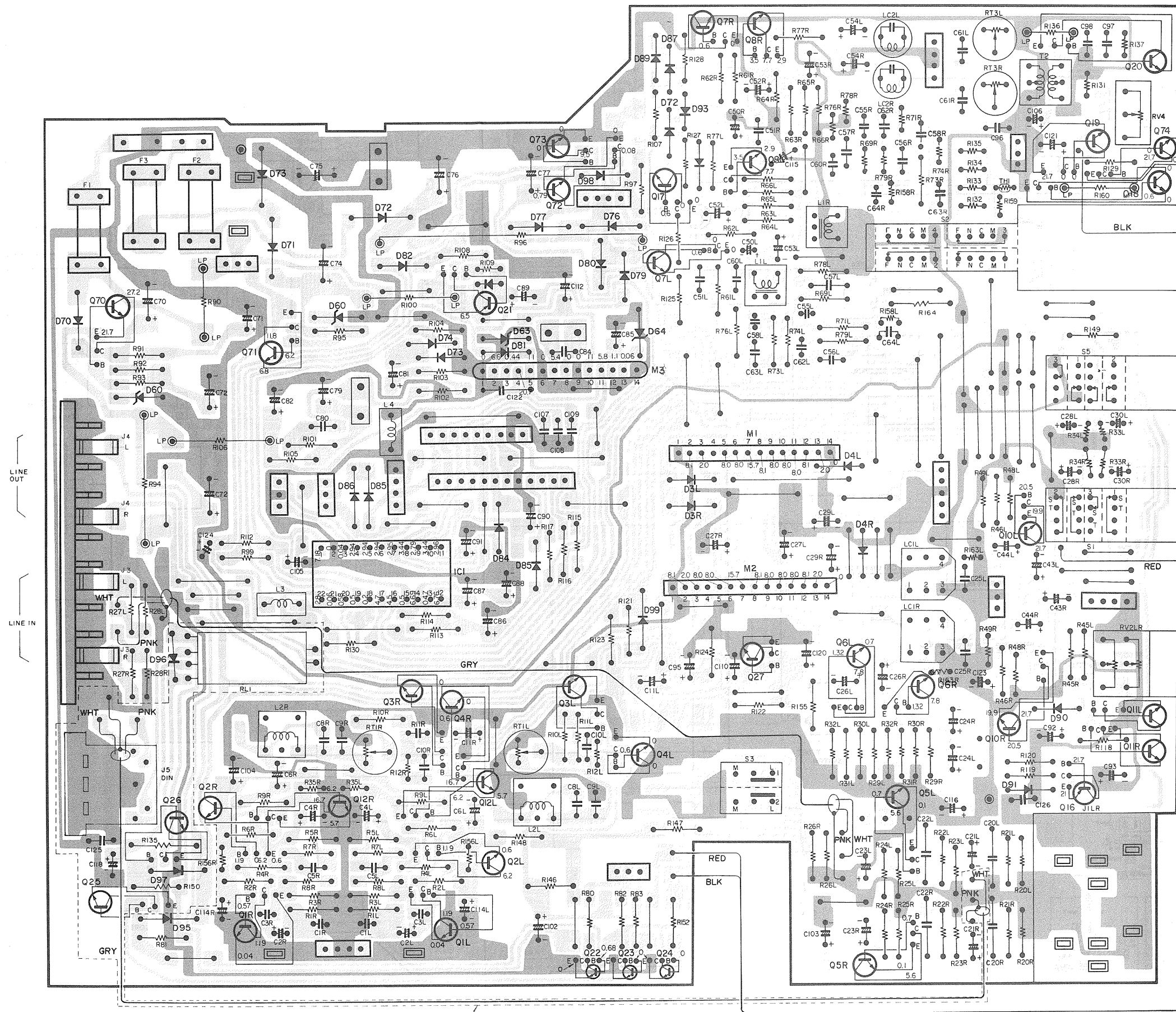
Using the DIN jack of this unit, monitoring the SOURCE sound is not possible with the TAPE switch set to SOURCE (in all modes—STOP, PLAY, REC). Monitoring the sound immediately after it has been recorded is also not possible. (Monitoring is not possible during recording with the TAPE switch set to either TAPE or SOURCE.)

When the user wants to perform SOURCE MONITOR, change as shown below.

Details of the change

- 1) Connect the emitter and collector (between (a)—(a') shown in the diagram on the left) of Q26 (2SC1740) to the pattern.

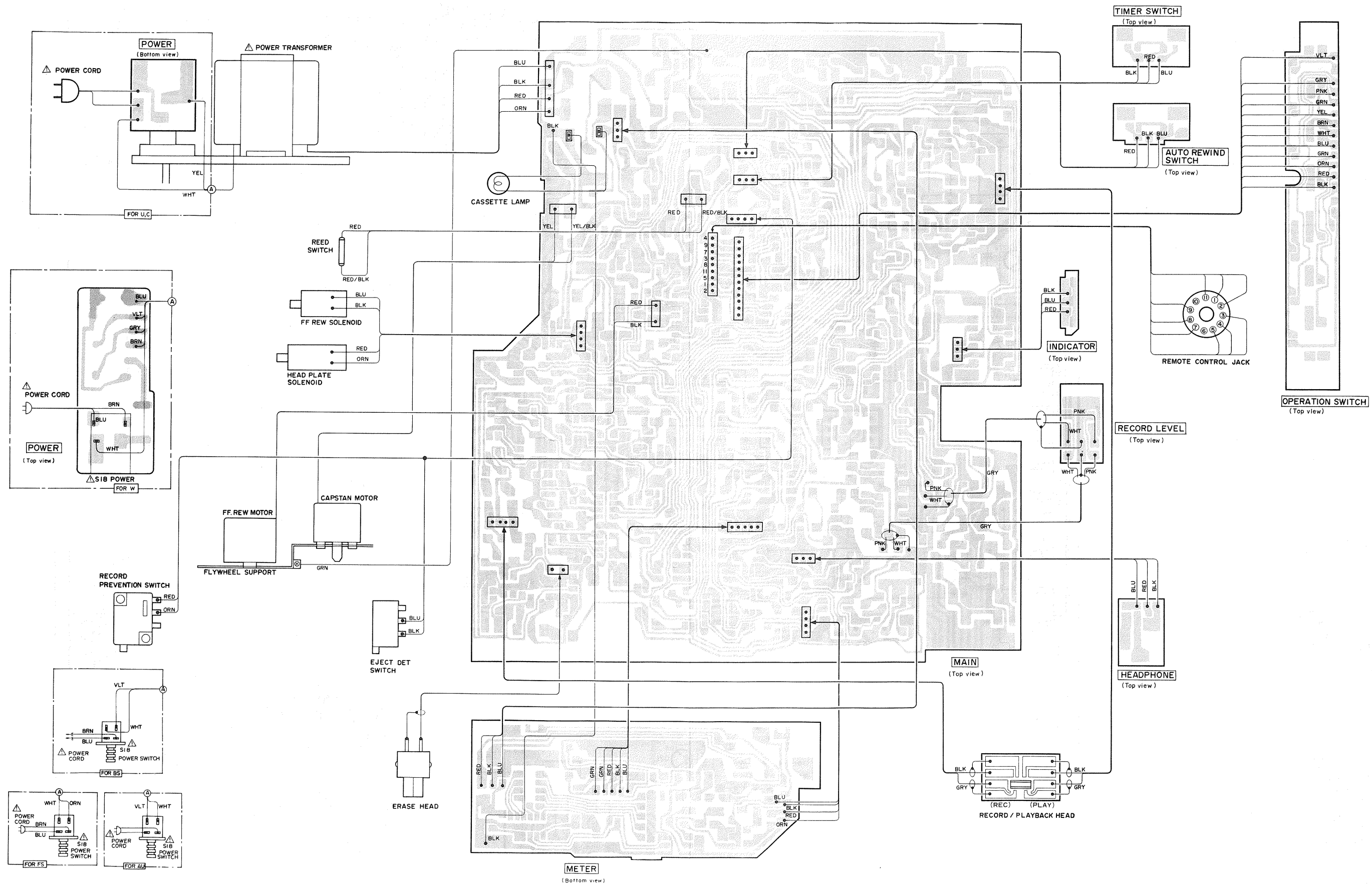
* When the above change is made, oscillations may occur depending on the equipment connected (Amp., music center, radio cassette).



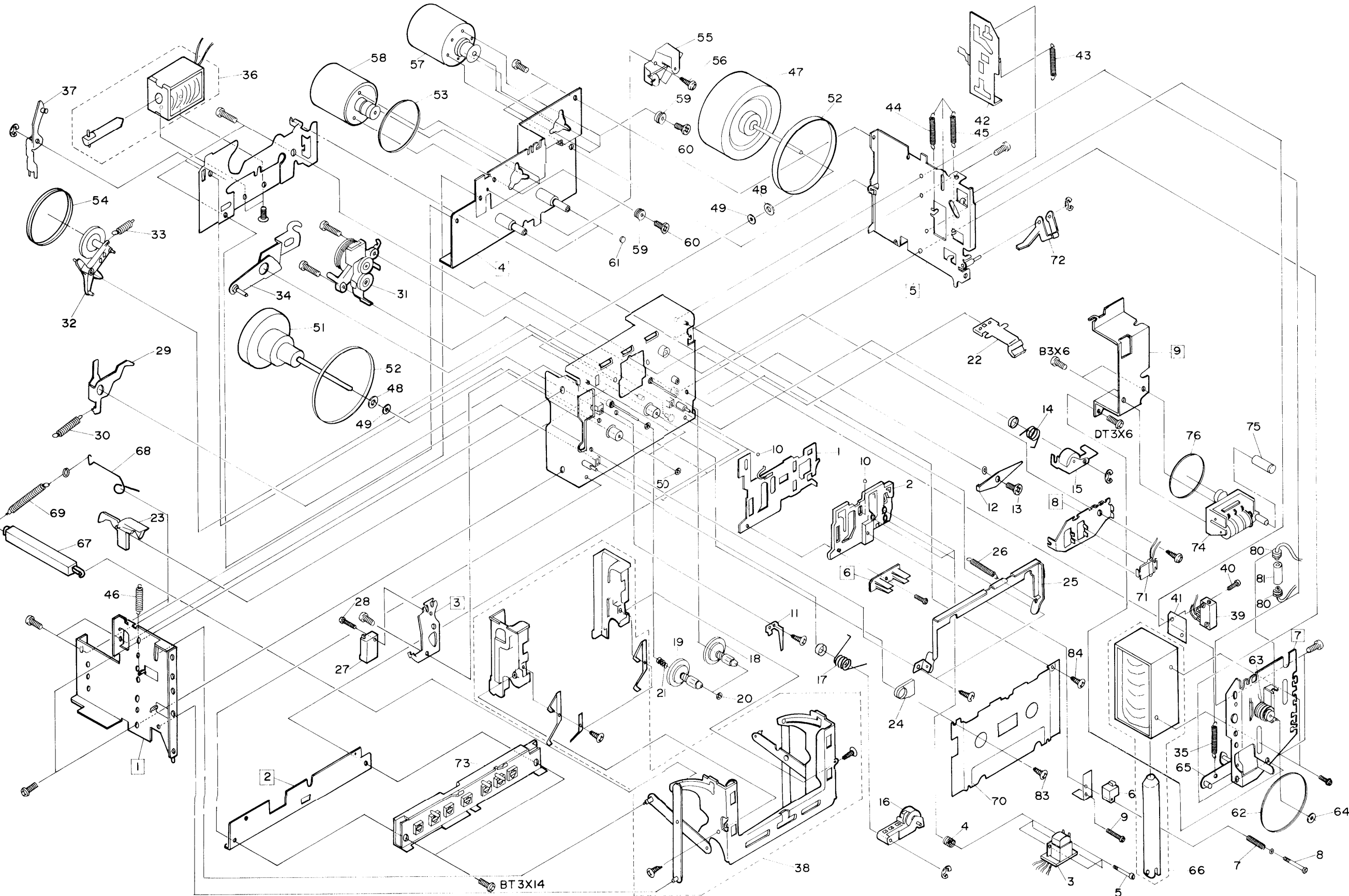
(FOR W, FS, BS, AU)

WIRING DIAGRAM

: Ground, Signal, +B : Component side pattern



EXPLODED VIEW (Cassette Chassis Section)



Note :
Components marked as [Number] in this drawing are not specified replacement parts.

REPLACEMENT PARTS LIST

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
MISCELLANEOUS					
J5	5651141	5P DIN SOCKET (FOR W,BS,FS,AU)	23	6757232	RECORD PREVENTION ARM
J6	5897462	11P SOCKET	24	6758071	ARM HOLDER
LC1LR	5161661	DOLBY FILTER	25	7312283	CASSETTE UP ARM ASS'Y
LC2LR	5120562	TRAP COIL	26	6301795	SPRING
LM1LR	5554731	LEVEL METER	27	5633361	PUSH SWITCH
PL	5762036	PILOT LAMP	28	0671310	DT SCREW-2.6MMX10MM
RL1	5641141	REED RELAY (FOR W,BS,FS,AU)	29	7311953	BRAKE FUNCTION ARM
S 1	5612294	ROTARY SWITCH (MONITOR)	30	6301022	SPRING
S 2	5613312	SLIDE ROTARY SWITCH (TAPE SELECT)	31	6413337	FF,REWIND BASE ASSEMBLY
S 3	5634306	PUSH SWITCH (INPUT)	32	6413344	TAKE UP ARM ASSEMBLY
S 5	5612293	ROTARY SWITCH (DOLBY NR)	33	6300291	SPRING
S 9	5620082	SLIDE SWITCH (TIMER)	34	7312511	PLAY ARM ASSEMBLY
S10	5620082	SLIDE SWITCH (AUTO REWIND)	35	6300971	SPRING
S11-17	5633352	PUSH SWITCH (FUNCTION)	36	5642512	SOLENOID ASSEMBLY (F,F,REWIND)
△ S18	5633321	POWER SWITCH (FOR W)	37	7312103	FF,REWIND ARM ASSEMBLY
△ S18	5633482	POWER SWITCH (FOR U,C)	38	7312267	CASSETTE HOLDER ASSEMBLY
△ S18	5633541	POWER SWITCH (FOR BS,FS,AU)	39	5633361	PUSH SWITCH
△ S19	5605081	ROTARY SWITCH (VOLTAGE SELECT) (FOR W)	40	0671310	DT SCREW-2.6MMX10MM
FOR ACCESSORIES					
5894164		PATCH CORD	41	7745241	INSULATION FIBER
5894165		PATCH CORD	42	7312165	EJECT SLIDER
7740321		HEAD CLEANING STICK	43	6306234	SPRING
5662021		SOCKET ADAPTER (FOR W)	44	6322214	SPRING
FOR CASSETTE CHASSIS ASSEMBLY (A)					
1	7318783	HEAD PLATE ASSEMBLY	45	6319705	SPRING
2	6973412	HEAD BASE	46	6301721	SPRING
3	5444851	RECORD PLAYBACK HEAD	47	6373325	FLYWHEEL ASSEMBLY (R)
4	6321246	HEAD SPRING	48	7772623	SPRING
5	7781752	SPECIAL SCREW	49	7786626	WASHER
6	5445312	ERASE HEAD	50	7786623	POLY SLIDER WASHER
7	6320744	HEAD SPRING	51	6373305	FLYWHEEL ASSEMBLY (L)
8	7781921	PAN HEAD SCREW-2MMX25MM	52	6357301	FLYWHEEL BELT
9	7780554	SCREW	53	6354702	BELT-29MMD
10	0948492	BALL - 2MMD	54	6354703	BELT-41MMD
11	6532991	LEAF SPRING	55	7290501	GOVERNOR
12	7311982	ERASE STOP PLATE	56	0671305	DT SCREW-2.6MMX5MM
13	7536872	LOCK LEVER PIN	57	5576165	MOTOR ASSEMBLY (PLAY)
14	6545951	SPRING	58	5576151	MOTOR ASSEMBLY (F,F,REWIND)
15	6383601	PRESSURE ROLLER ARM ASS (R)	59	6576084	RUBBER PLATE
16	6383472	PRESSURE ROLLER ARM ASS (L)	60	7539002	SCREW FOR MOTOR MOUNTING
17	6545334	SPRING	61	7768682	THRUST SUPPORT
18	6413313	TURNTABLE ASSEMBLY	62	6354792	COUNTER BELT
19	6413317	TURNTABLE ASSEMBLY (SUPPLY)	63	6346283	COUNTER PULLEY ASS.
20	7786115	POLYESTER WASHER	64	7786115	POLYESTER WASHER
21	6320731	BACK TENSION SPRING LEFT	65	7312114	PLAY ARM ASSEMBLY
22	6752854	CASSETTE HOLDER SPRING	66	5642662	SOLENOID ASSEMBLY (PLAY)
			67	6753012	EJECT ARM ASSEMBLY
			68	6545268	DAMPER WIRE
			69	6540013	DAMPER SPRING

Type of head					
P	Pan head screw		BT	Binding head tapping screw	
F	Flat countersunk head screw		BL	Bolt	
B	Binding head screw		W	Washer	
T	Round head tapping screw		E	"E" ring	
Length (L mm)			  		
Diameter (D mm)					



P3×8



W2 6

When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.

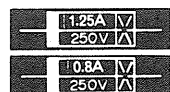
FOR CANADA

CAUTION AGAINST FUSE REPLACEMENT

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND SAME RATING FUSE IN ACCORDANCE WITH THE FUSE SYMBOL LEVEL.

The following is indication of the fuse symbol label which is affixed adjacent to the fuse in the equipment.

* Example



This symbol indicates Fast Operating Type 1.25A, 250V Fuse.

This symbol indicates Fast Operating Type 0.8A, 250V Fuse.



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Tel. 312-593-1550

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